

# ALU TERRACE

## ALUMINIUM PROFILE FOR PATIOS

### TWO VERSIONS

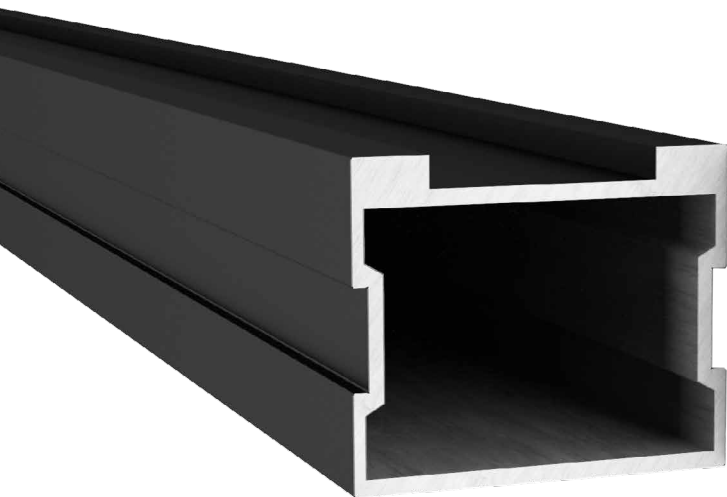
ALUTERRA30 version for standard loads. ALUTERRA50 version, in black, for very high loads; can be used on both sides.

### SUPPORT EVERY 1.10 m

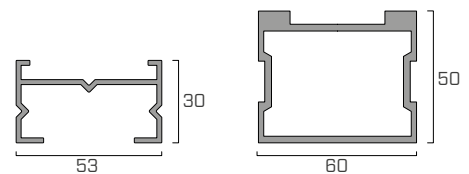
ALUTERRA50 designed with a very high inertia so that the SUPPORTS can be positioned every 1,10 m (along the profile midline), even with high loads (4,0 kN/m<sup>2</sup>).

### DURABILITY

The substructure made of aluminium profiles guarantees excellent patio durability. The drainage channel allows water to run off and generates effective micro-ventilation.



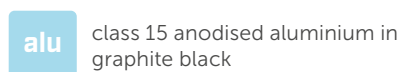
### SECTIONS [mm]



### SERVICE CLASS

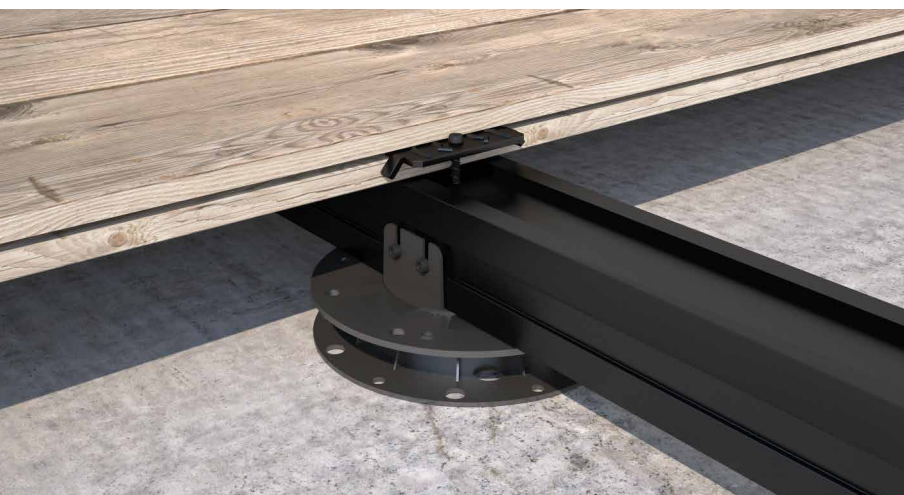


### MATERIAL



### FIELDS OF USE

Patio substructure. Outdoor use.



### **DISTANCE 1.10 m**

With an inter-profile distance of 80 cm (load: 4.0 kN/m<sup>2</sup>), the SUPPORTS can be spaced 1,10 m apart and placed along the ALUTERRACE50 midline.

### **COMPLETE SYSTEM**

Ideal for use in combination with SUPPORT, fixed laterally with KKA screws. System with excellent durability.



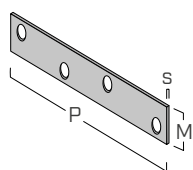


Stabilization of ALUTERRA50 with stainless steel plates and KKA screws.

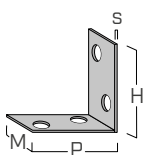


Aluminium substructure made with ALUTERRA30 and resting on GRANULO PAD

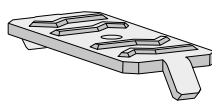
## ACCESSORY CODES AND DIMENSIONS



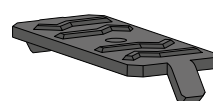
LBVI15100



WHOI1540



FLIP

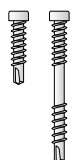


FLAT

CODE	material	s [mm]	M [mm]	P [mm]	H [mm]	pcs
<b>LBVI15100</b>	A2   AISI304	1,75	15	100	-	50
<b>WHOI1540</b>	A2   AISI304	1,75	15	40	40	50

CODE	material	pcs
<b>FLAT</b>	black alluminum	200
<b>FLIP</b>	zinc-plated steel	200

### KKA AISI410



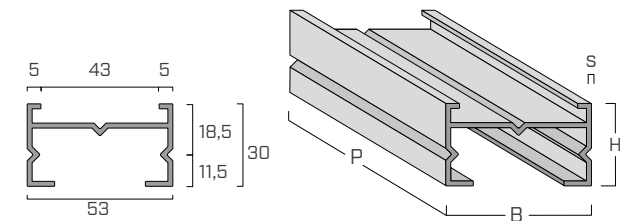
d <sub>1</sub> [mm]	CODE	L [mm]	pcs
4 TX 20	KKA420	20	200
5 TX 25	KKA540	40	100
	KKA550	50	100

### KKA COLOR

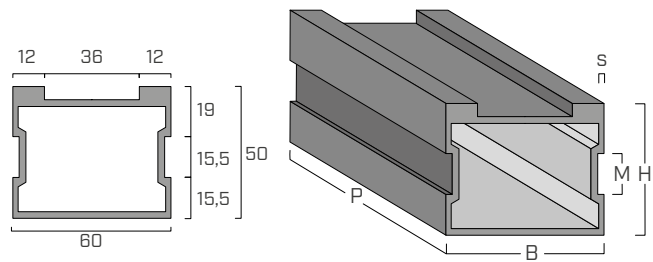


d <sub>1</sub> [mm]	CODE	L [mm]	pcs
4	KKAN420	20	200
4 TX 20	KKAN430	30	200
	KKAN440	40	200
5 TX 25	KKAN540	40	200

■ GEOMETRY



ALU TERRACE 30



ALU TERRACE 50

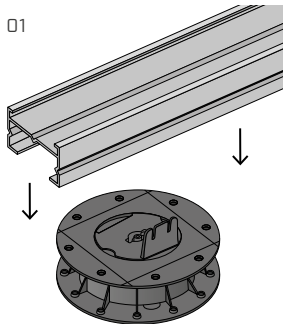
■ CODES AND DIMENSIONS

CODE	s	B	P	H	pcs
	[mm]	[mm]	[mm]	[mm]	
ALUTERRA30	1,8	53	2200	30	1

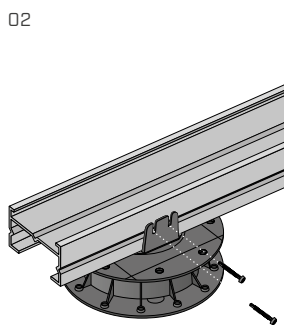
CODE	s	B	P	H	pcs
	[mm]	[mm]	[mm]	[mm]	
ALUTERRA50	2,5	60	2200	50	1

NOTES: upon request, P= 3000 mm version is available.

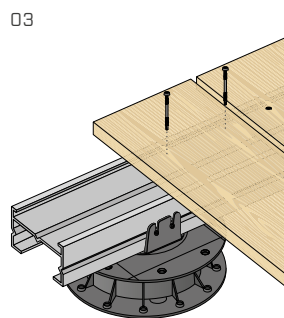
■ EXAMPLE OF FASTENING WITH SCREWS AND ALUTERRA30



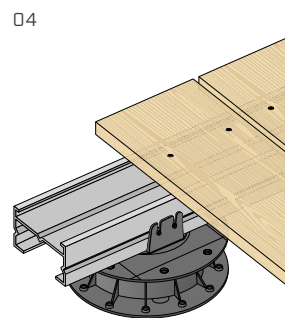
Place the ALU TERRACE on the SUP-S fit with head SUPSLHEAD1.



Fix the ALU TERRACE with 4,0 mm diameter KKAN.

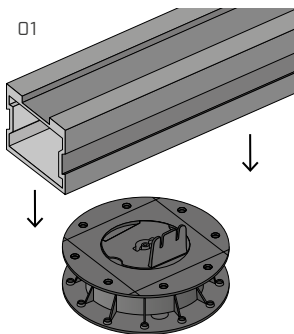


Fix the wooden or WPC boards directly on the ALU TERRACE with 5,0 mm diameter KKA screws.

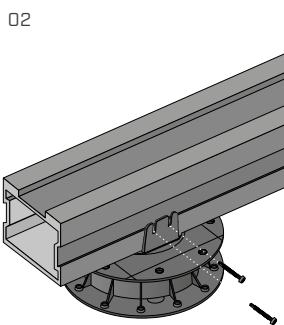


Repeat the operations for the remaining boards.

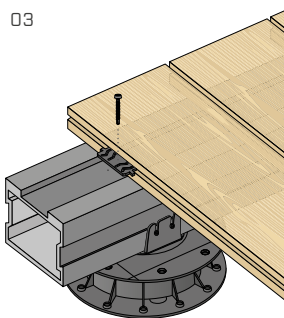
■ EXAMPLE OF FASTENING WITH CLIP AND ALUTERRA50



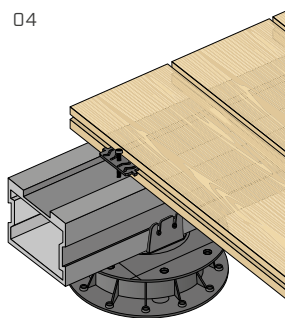
Place the ALU TERRACE on the SUP-S fit with head SUPSLHEAD1.



Fix the ALU TERRACE with 4,0 mm diameter KKAN.



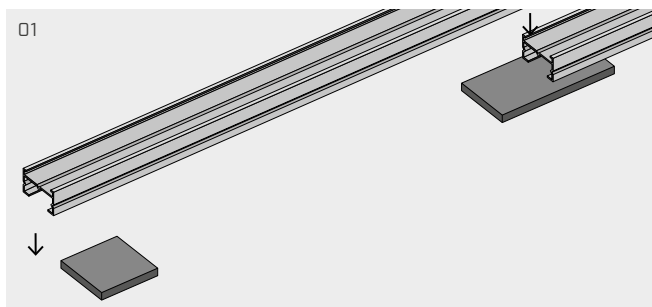
Fix the boards using FLAT concealed clips and 4,0 mm diameter KKAN screws.



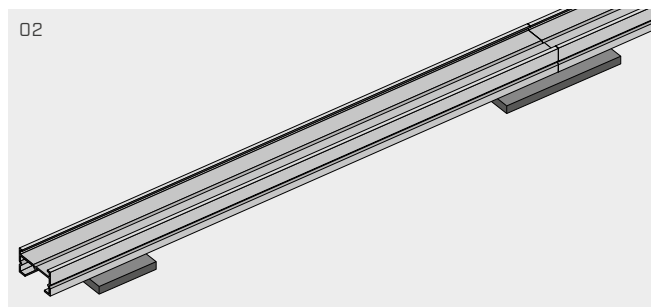
Repeat the operations for the remaining boards.



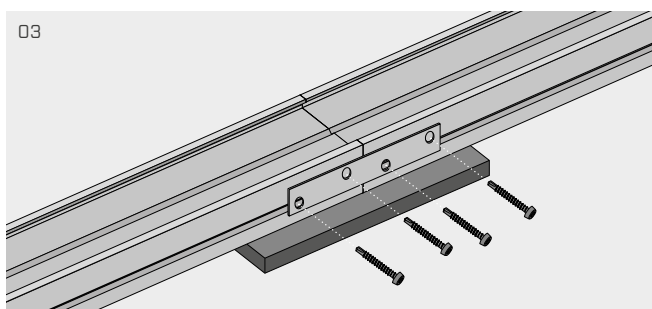
## ■ EXAMPLE PLACEMENT ON GRANULO PAD



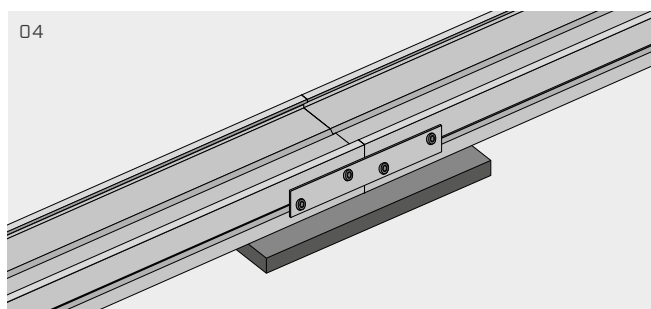
Several ALUTERRA30 units can be connected lengthwise using stainless steel plates. Connection is optional.



Line up the ends of 2 aluminium profiles.

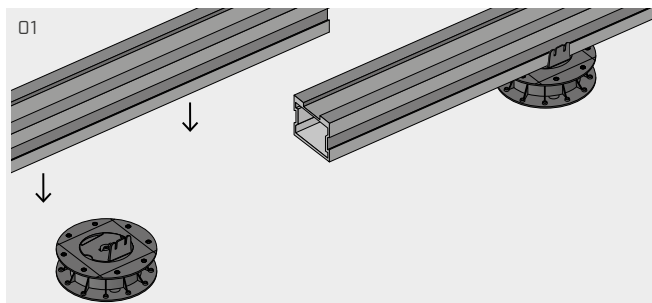


Place the LBVI15100 stainless steel plate on the aluminium profiles and fix with 4,0 x 20 KKA screws.

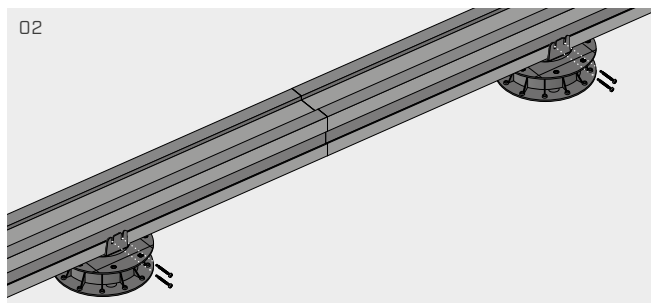


Do this on both sides to maximize stability.

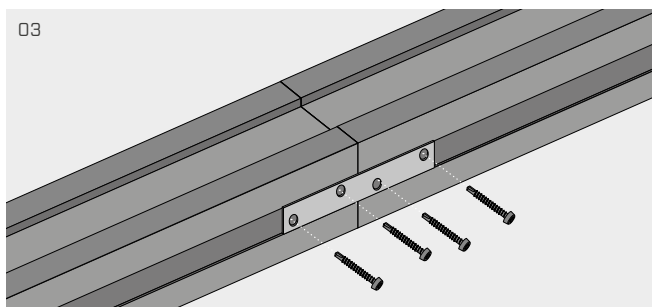
## ■ EXAMPLE PLACEMENT ON SUPPORT



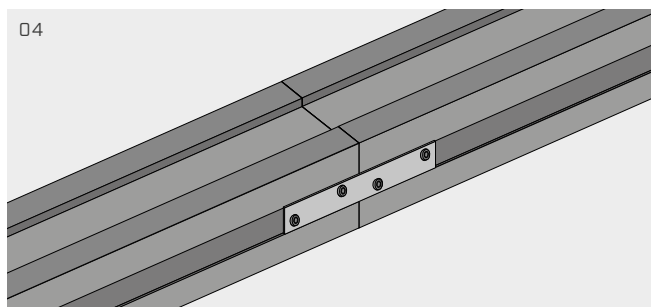
Several ALUTERRA50 units can be connected lengthwise using stainless steel plates. Connection is optional if the joint coincides with placement on the SUPPORT.



Connect the aluminium profiles with KKAN screws (diameter: 4,0 mm) and place 2 aluminium profiles end to end.



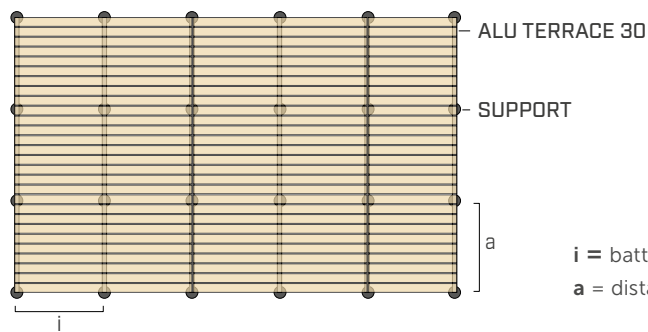
Place the LBVI15100 stainless steel plate on the lateral holes in the aluminium profiles and fix with 4,0 x 20 KKA screws or KKAN 4,0 mm diameter.



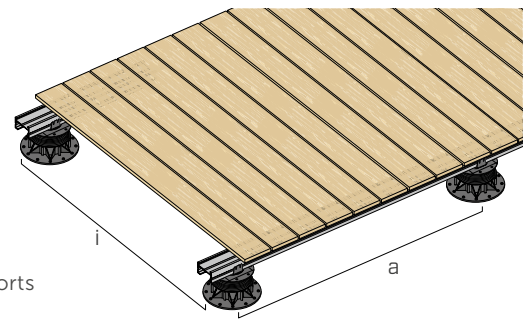
Do this on both sides to maximize stability.

## ■ MAXIMUM DISTANCE BETWEEN SUPPORTS (a)

### ALU TERRACE 30

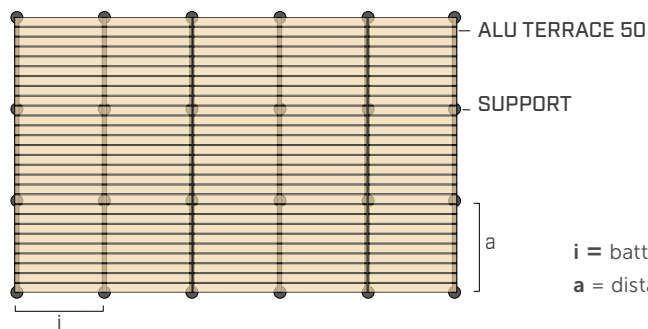


**i** = battens spacing  
**a** = distance between supports

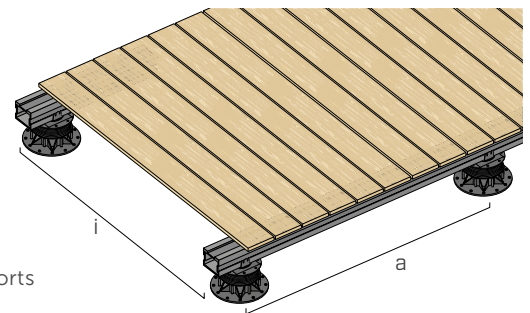


OPERATING LOAD [kN/m <sup>2</sup> ]	a [m]								
	i=0,4 m	i=0,45 m	i=0,5 m	i=0,55 m	i=0,6 m	i=0,7 m	i=0,8 m	i=0,9 m	i=1,0 m
2,0	0,77	0,74	0,71	0,69	0,67	0,64	0,61	0,59	0,57
3,0	0,67	0,65	0,62	0,60	0,59	0,56	0,53	0,51	0,49
4,0	0,61	0,59	0,57	0,55	0,53	0,51	0,48	0,47	0,45
5,0	0,57	0,54	0,53	0,51	0,49	0,47	0,45	0,43	0,42

### ALU TERRACE 50



**i** = battens spacing  
**a** = distance between supports



OPERATING LOAD [kN/m <sup>2</sup> ]	a [m]								
	i=0,4 m	i=0,45 m	i=0,5 m	i=0,55 m	i=0,6 m	i=0,7 m	i=0,8 m	i=0,9 m	i=1,0 m
2,0	1,70	1,64	1,58	1,53	1,49	1,41	1,35	1,30	1,25
3,0	1,49	1,43	1,38	1,34	1,30	1,23	1,18	1,14	1,10
4,0	1,35	1,30	1,25	1,22	1,18	1,12	1,07	1,03	1,00
5,0	1,25	1,21	1,16	1,13	1,10	1,04	1,00	0,96	0,92

#### NOTES

- Example with limit deformation L/300;
- Useful load according to EN 1991-1-1:
  - Category A areas = 2,0 ÷ 4,0 kN /m<sup>2</sup>;
  - Areas susceptible to category C2 crowding = 3,0 ÷ 4,0 kN/m<sup>2</sup>;
  - Areas susceptible to category C3 crowding = 3,0 ÷ 5,0 kN/m<sup>2</sup>;

The calculation was performed considering, for safety purposes, the static diagram of a single-span beam in simple support loaded with a uniformly distributed load.